

PROJECT ID: PMN06011997

SAMPLE ID: ~~NO SAMPLE ID~~

PN 142

DESCRIPTOR: PESTICIDE
MONITORING NETWORK

IDEM

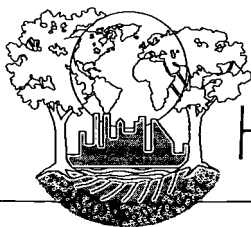
DK12434, DK12498, DK12497, DK12499-503, DK12514 &

DK12160-61



**Environmental
Health Laboratories**

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Environmental Health Laboratories

110 S. Hill Street
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LABORATORY REPORT

Client: IDEM
Attn: Mitt Denney
Groundwater Section
100 North Senate Avenue
P. O. Box 6015
Indianapolis, IN 46206-6015

Report #: 374150-154+175-234

Priority: Standard Written

Status: Final

Project: DK 12434, DK 12498, DK12497, DK 12499-503, DK 12514 &
DK12160-61

Samples Submitted: Eleven groundwater samples

Copies to: None

Collected: 12/01 to 12/03/98

By: Client

Received: 12/03 to 12/04/98

REPORT SUMMARY

Eleven groundwater samples were submitted for analysis of Task 4A, 2,4-D and Carbofuran (Enzyme Immunoassay) and Pesticides (Method 525.2).

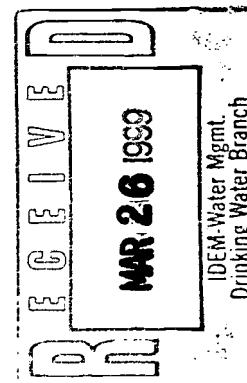
Note: The samples submitted for pesticide analysis were extracted at a neutral pH at the request of the client.

The following is a summary of the results by sample. Any compounds that are not part of the requested parameter list are indicated by an asterisk(*).

2,4-D Enzyme Immunoassay-12/07/98

None of the quality control samples in the analytical run were outside the limits specified in the method.

DK12434	2,4-D was not detected in the sample submitted for analysis.
DK12498	2,4-D was not detected in the sample submitted for analysis.
DK12497	2,4-D was not detected in the sample submitted for analysis.
DK12499	2,4-D was not detected in the sample submitted for analysis.
DK12500	2,4-D was not detected in the sample submitted for analysis.
DK12501	2,4-D was not detected in the sample submitted for analysis.
DK12502	2,4-D was not detected in the sample submitted for analysis.
DK12503	2,4-D was not detected in the sample submitted for analysis.
DK12514	2,4-D was not detected in the sample submitted for analysis.



2,4-D Enzyme Immunoassay-12/07/98Cont'd

DK12160 2,4-D was not detected in the sample submitted for analysis.

DK12161 2,4-D was not detected in the sample submitted for analysis.

Carbofuran Enzyme Immunoassay-12/08/98

None of the quality control samples in the analytical run were outside the limits specified in the method.

DK12434 Carbofuran was not detected in the sample submitted for analysis.

DK12498 Carbofuran was not detected in the sample submitted for analysis.

DK12497 Carbofuran was not detected in the sample submitted for analysis.

DK12499 Carbofuran was not detected in the sample submitted for analysis.

DK12500 Carbofuran was not detected in the sample submitted for analysis.

DK12501 Carbofuran was not detected in the sample submitted for analysis.

DK12502 Carbofuran was not detected in the sample submitted for analysis.

DK12503 Carbofuran was not detected in the sample submitted for analysis.

DK12514 Carbofuran was not detected in the sample submitted for analysis.

DK12160 Carbofuran was not detected in the sample submitted for analysis.

DK12161 Carbofuran was not detected in the sample submitted for analysis.

EPA 525.2-AE121798

Cyanazine recovery in the LFB was low biased outside the acceptance limits of 70-130% recovery. This compound had acceptable recoveries in the CCCs. One of four surrogate standard recoveries in sample DK12503 was high biased outside the acceptance limits of 70-130% recovery. This data is acceptable based on the recoveries of the other three surrogate standards. Due to an analyst error, a laboratory fortified matrix was not analyzed. None of the other quality control samples in the analytical run were outside the limits specified in the method.

DK12434 None of the method parameters were detected in the sample submitted for analysis.

DK12498 None of the method parameters were detected in the sample submitted for analysis.

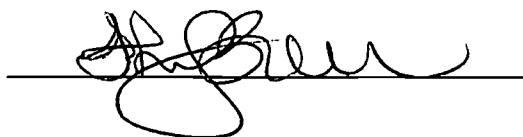
DK12497 None of the method parameters were detected in the sample submitted for analysis.

EPA 525.2-AE121798Cont'd

DK12499	None of the method parameters were detected in the sample submitted for analysis.
DK12500	None of the method parameters were detected in the sample submitted for analysis.
DK12501	None of the method parameters were detected in the sample submitted for analysis.
DK12502	None of the method parameters were detected in the sample submitted for analysis.
DK12503	None of the method parameters were detected in the sample submitted for analysis.
DK12514	None of the method parameters were detected in the sample submitted for analysis.
DK12160	None of the method parameters were detected in the sample submitted for analysis.
DK12161	None of the method parameters were detected in the sample submitted for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call us at (219) 233-4777.

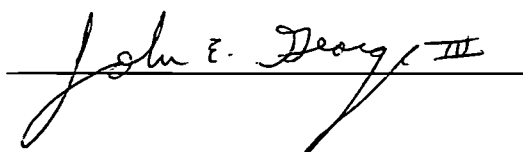
REVIEWED BY:



DATE:

3/4/99

FINALIZED BY:



DATE:

3/24/99.

ENVIRONMENTAL HEALTH LABORATORIES

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2,4-D ANALYSIS RESULT SHEET

Method: Enzyme Immunoassay - Qualitative
 Run Date: 12/07/98 Run Time: 14:00
 LOT # Standard 1: 712563
 Standard 2: 712564
 Standard 3: Not Used
 Control Solution: 712566
 Diluent/Zero Solution: 7K2778

Analyst: NM
 Project(s): IDEM / Pesticide Monitoring Network
 Enzyme Conjugate: 8C1017
 Stopping Solution: 7J2630
 Washing Solution: 7L3052
 Color Solution: 8B1151
 Magnetic Particles: 8C1016

Instrument ID: B&L Spectronic 21
 Run ID #: 16051
 Standard Warmup Time: Spectronic 21 Setting: 450
 Curve Date: 07/08/98
 Kit Lot: 8C1023
 in use: 12/07/98

Seq Num	Lab ID #	Client	Sample Description	Type	Matrix	Absorbance (nm) Bx	Bx x 100 Bo	Calcd PPB	Final Result	Q Rec'd	Q
1			Diluent/Zero	LMB	RW	1.066					
2			Diluent/Zero	LMB	RW	1.085					
3			Standard1	ICS	RW	0.936	87.0	1.1	Present	110	
4			Standard1	ICS	RW	0.966	89.8	0.9	Present	90	
5			Control	QCS	RW	0.837	77.8	2.8	Present	80	
6	374153	IDEM	DK12434	FS	GW	1.073	99.8	< 1.0	Absent		
7			Diluent/Zero	LMB	RW	1.042	96.9	< 1.0	Absent		
8			Standard1	CCC	RW	0.960	89.3	1.0	Present	100	
9	374184	IDEM	DK12498	FS	GW	1.097	102.0	< 1.0	Absent		
10	374193	IDEM	DK12497	FS	GW	1.059	98.5	< 1.0	Absent		
11	374198	IDEM	DK12499	FS	GW	1.064	98.9	< 1.0	Absent		
12	374203	IDEM	DK12500	FS	GW	1.159	107.8	< 1.0	Absent		
13	374208	IDEM	DK12501	FS	GW	1.355	126.0	< 1.0	Absent		
14	374213	IDEM	DK12502	FS	GW	1.079	100.3	< 1.0	Absent		
15	374218	IDEM	DK12503	FS	GW	1.116	103.8	< 1.0	Absent		
16	374223	IDEM	DK12514	FS	GW	1.104	102.6	< 1.0	Absent		
17	374228	IDEM	DK12160	FS	GW	1.084	100.8	< 1.0	Absent		
18	374233	IDEM	DK12161	FS	GW	1.189	110.6	< 1.0	Absent		
19			Diluent/Zero	LMB	RW	0.985	91.6	0.8	Present		
20			Standard1	CCC	RW	0.878	81.6	2.0	Present	200	
21											
22											

Comments:

ENVIRONMENTAL HEALTH LABORATORIES

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CARBOFURAN ANALYSIS RESULT SHEET

Method: Enzyme Immunoassay - Qualitative
Run Date: 12/08/98 Run Time: 09:30
LOT # Standard 1: Not Used
Standard 2: 8J0190
Standard 3: 8J0191
Control Solution: 8J0192
Diluent/Zero Solution: 8F1161

Analyst: NM
Project(s): IDEM / Pesticide Monitoring Network
Enzyme Conjugate: 8J0167
Stopping Solution: 8E1259
Washing Solution: 8C1031
Color Solution: 8G1178
Magnetic Particles: 8J0168

Instrument ID: B&L Spectronic 21
Run ID #: 16068
Standard Warmup Time: Spectronic 21 Setting: 450
Curve Date: 10/15/98
Kit Lot: 8J0210
in use: 12/08/98

Seq Num	Lab ID #	Client	Sample Description	Conc Type	Matrix	Absorbance (nm) Bx	Bx x 100 Bo	Calcd PPB	Final Result	% Rec	Q
1			Diluent/Zero	0.0 ug/L	LMB	RW	1.484				
2			Diluent/Zero	0.0 ug/L	LMB	RW	1.499				
3			Standard2	1.0 ug/L	ICS	RW	0.817	54.8	0.78	Present	78
4			Standard2	1.0 ug/L	ICS	RW	0.802	53.8	0.80	Present	80
5			Control	2.0 ug/L	QCS	RW	0.602	40.4	1.7	Present	85
6	374154	IDEM	DK12434		FS	GW	1.660	111.3	<1.0	Absent	
7	374187	IDEM	DK12498		FS	GW	1.730	116.0	<1.0	Absent	
8	374194	IDEM	DK12497		FS	GW	1.550	103.9	<1.0	Absent	
9	374199	IDEM	DK12499		FS	GW	1.436	96.3	<1.0	Absent	
10			Diluent/Zero	0.0 ug/L	LMB	RW	1.630	109.3	<1.0	Absent	
11			Standard2	1.0 ug/L	CCC	RW	0.718	48.1	1.1	Present	110
12	374204	IDEM	DK12500		FS	GW	1.495	100.2	<1.0	Absent	
13	374209	IDEM	DK12501		FS	GW	1.710	114.6	<1.0	Absent	
14	374214	IDEM	DK12502		FS	GW	1.730	116.0	<1.0	Absent	
15	374219	IDEM	DK12503		FS	GW	1.740	116.7	<1.0	Absent	
16	374224	IDEM	DK12514		FS	GW	1.690	113.3	<1.0	Absent	
17	374229	IDEM	DK12160		FS	GW	1.560	104.6	<1.0	Absent	
18	374234	IDEM	DK12161		FS	GW	1.760	118.0	<1.0	Absent	
19			Diluent/Zero	0.0 ug/L	LMB	RW	1.510	101.2	<1.0	Absent	
20			Standard2	1.0 ug/L	CCC	RW	0.803	53.8	0.8	Present	80
21											
22											

Comments:

**PESTICIDES & INDUSTRIAL CHEMICALS EXTENDED - GC/MS TUNING
AND MASS CALIBRATION - Decafluorotriphenylphosphine (DFTPP)**

Tech: AT
Date: 12/18/98

Lab Name: Environmental Health Laboratories Lab ID: unknown Acq. File: A121798A
Contract: BAA 97-044 Task: 4A Data Directory: AE\121798A
Project: IDEM / Pesticide Monitoring Network Case: n/a Initial Cali File: 0928F0AE
Column: Restek XTI-5 30m x 0.25mm ID Method: 525.2 Instrument ID: GC/MS - AE

m/e	Ion Abundance Criteria	% Rel Abundance	Q	Matrix	Code
51	10 to 80% of base peak	28.58		Reagent Water	RW
68	< 2% of Mass 69	0.00		Tune Date: Surface Water	SW
70	< 2% of Mass 69	0.00		12/17/98 Drinking Water	DW
127	10 to 80% of base peak	27.42		Ground Water	GW
197	< 2% of Mass 198	0.00		Tune Time: Waste Water	WW
198	base peak or > 50 % of mass 442	100.00		14:25 Sediment	SE
199	5 to 9% of mass 198	8.29		Soil	SO
275	10 to 60% of base peak	18.91		Hours Since Sludge	SL
365	> 1% of base peak	2.98		Last Tune Other Solvents	OS
441	Present and < mass 443	14.76		TCLP Leachate	TC
442	base peak or > 50 % of mass 198	69.45		Hazardous Waste	HW
443	15 to 24% of mass 442	17.17		Contamination Levels: L=Low M=Medium H=High	

	Sample No. / Sample Description	Data File / Sample ID	Date Analyzed	Time Analyzed	Matrix Code	Contm. Level
1	Tune 1	TI-DFN1	12/17/98	14:25	OS	
2	SPCC	S-525A	12/17/98	14:56	OS	
3	Continuing Calibration Check A	C-1-18A	12/17/98	15:38	OS	
4	Laboratory Method Blank A	MB-525A	12/17/98	16:34	RW	
5	Laboratory Fortified Blank A	FB-525A	12/17/98	17:08	RW	
6	DK 12434	374150	12/17/98	17:43	GW	L
7	DK 12498	374175	12/17/98	18:17	GW	L
8	DK 12497	374190	12/17/98	18:51	GW	L
9	DK 12499	374195	12/17/98	19:25	GW	L
10	DK 12500	374200	12/17/98	20:00	GW	L
11	DK 12501	374205	12/17/98	20:34	GW	L
12	DK 12502	374210	12/17/98	21:08	GW	L
13	DK 12503	374215	12/17/98	21:42	GW	L
14	DK 12514	374220	12/17/98	22:16	GW	L
15	DK 12160	374225	12/17/98	22:50	GW	L
16	DK 12161	374230	12/17/98	23:24	GW	L
17	Laboratory Fortified Matrix A	FM-525A	12/18/98	00:34	DW	
18	Continuing Calibration Check B	C-1-18B	12/18/98	01:09	OS	
19						
20						
21						
22						
23						
24						

Q = A flag or qualifier indicating possible cause for an out of range or failed result.

Comments:

PESTICIDES & INDUSTRIAL CHEMICALS EXTENDED LABORATORY PERFORMANCE CHECK

Tech: AT
Date: 12/18/98

Lab Name: Environmental Health Laboratories Lab ID: unknown Acq. File: A121798A
Contract: BAA 97-044 Task: 4A Data Directory: AE\121798A
Project: IDEM / Pesticide Monitoring Network Case: n/a Initial Cali File: 0928F0AE
Column: Restek XTl-5 30m x 0.25mm ID Method: 525.2 Instrument ID: GC/MS - AE
Data File: S-525A LPC Soln Lot #: 112597-112597

Compound	Test	Conc. ug/ml	Requirements	Result	Pass/Fail	Q
Bromacil	Chromatographic Performance	5.0	0.80 < PGF < 1.20 (a)	0.92	Pass	
Atrazine	Column	0.15	Resolution > 0.7 (b)	1.10	Pass	
Prometon	Performance	0.30				
Endrin	Abundance of degradation to Endrin Aldehyde	2.0	< 10% endrin aldehyde	< 10 %	Pass	
4,4' - DDT	Abundance of degradation to 4,4' - DDD & 4,4' - DDE		< 10% 4,4'-DDD & 4,4'-DDE	< 10 %	Pass	

Q = A flag or qualifier indicating possible cause for an out of range or failed result.

(a) PGF - peak Gaussian factor. Calculated using the equation:

$$PGF = \frac{1.83 \times W(1/2)}{W(1/10)}$$

where W(1/2) is the peak width at half height and W(1/10) is the peak width at tenth height.

(b) Resolution between the two peaks as defined by the equation:

$$R = \frac{t}{w}$$

where t is the difference in elution times between the two peaks and W is the average peak width, at the baseline, of the two peaks.

Comments: _____

**Environmental Health Laboratories
Continuing Calibration Check Check**

File Name: C-1-18A
Acquisition File: A121798A
Data Directory: 121798A
Today's Date: 1999/01/20
Instrument: GC/MS - AE
Extracted Date: Not Available
Sample Number: 376360

Method: 525.2 - IDEM
Calibration File: 0928F0AE
Analysis Date: 1998/12/17
Analysis Time: 15:38
Analyst: toms
Results Submitted By: toms
Run Number: 16325

Sample Description: CCC A

<u>Compound</u>	<u>Target</u>	<u>Amount</u>	<u>%Rec</u>	<u>Limits</u>		<u>Pass/Fail</u>
				<u>Lower</u>	<u>Upper</u>	
Acetochlor	1.00	0.963	96.3	70.00	130.00	PASS
Alachlor	1.00	0.932	93.2	70.00	130.00	PASS
Atrazine	1.00	1.054	105.4	70.00	130.00	PASS
Bromacil	1.00	1.05	105.0	70.00	130.00	PASS
Cyanazine	1.00	0.913	91.3	70.00	130.00	PASS
Diazinon	1.00	1.069	106.9	70.00	130.00	PASS
Endosulfan I	1.00	1.035	103.5	70.00	130.00	PASS
Endosulfan II	1.00	0.973	97.3	70.00	130.00	PASS
Endosulfan sulfate	1.00	0.958	95.8	70.00	130.00	PASS
Fenamiphos	1.00	0.956	95.6	70.00	130.00	PASS
Metolachlor	1.00	0.93	93.0	70.00	130.00	PASS
Metribuzin	1.00	0.964	96.4	70.00	130.00	PASS
Pendimethalin	1.00	1.045	104.5	70.00	130.00	PASS
Prometon	1.00	0.997	99.7	70.00	130.00	PASS
Propachlor	1.00	1.005	100.5	70.00	130.00	PASS
Simazine	1.00	0.91	91.0	70.00	130.00	PASS
Terbufos	1.00	0.852	85.2	70.00	130.00	PASS
Trifluralin	1.00	0.871	87.1	70.00	130.00	PASS
IS-4,4'-Dibromooctafluorobiphenyl	1.00	5.0	N/A	N/A	N/A	Validate
IS-Chrysene-d12	1.00	5.0	N/A	N/A	N/A	Validate
IS-Phenanthrene-d10	1.00	5.0	N/A	N/A	N/A	Validate

**Environmental Health Laboratories
Laboratory Method Blank Check**

File Name: MB-525A
Acquisition File: A121798A
Data Directory: 121798A
Today's Date: 1999/01/20
Instrument: GC/MS - AE
Extracted Date: 1998/12/07
Sample Number: 378166

Method: 525.2 - IDEM
Calibration File: 0928F0AE
Analysis Date: 1998/12/17
Analysis Time: 16:34
Analyst: toms
Results Submitted By: toms
Run Number: 16325

Sample Description: LMB A L

Expected Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

Additional Found Parameters

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
10386-84-2	IS-4,4'-Dibromooctafluorobiphenyl	5.0	N/A	ug/L
1719-03-5	IS-Chrysene-d12	5.0	N/A	ug/L
1517-22-2	IS-Phenanthrene-d10	5.0	N/A	ug/L

**Environmental Health Laboratories
Laboratory Fortified Blank Check**

File Name: FB-525A
Acquisition File: A121798A
Data Directory: 121798A
Today's Date: 1999/01/20
Instrument: GC/MS - AE
Extracted Date: 1998/12/07
Sample Number: 378167

Method: 525.2 - IDEM
Calibration File: 0928F0AE
Analysis Date: 1998/12/17
Analysis Time: 17:08
Analyst: toms
Results Submitted By: toms
Run Number: 16325

Sample Description: LFB A L

<u>Compound</u>	<u>Target</u>	<u>Amount</u>	<u>%Rec</u>	<u>Limits</u>		<u>Pass/Fail</u>
				<u>Lower</u>	<u>Upper</u>	
Acetochlor	1.00	1.179	117.9	70.00	130.00	PASS
Alachlor	1.00	1.061	106.1	70.00	130.00	PASS
Atrazine	1.00	1.076	107.6	70.00	130.00	PASS
Bromacil	1.00	1.159	115.9	70.00	130.00	PASS
Cyanazine	1.00	0.166	16.6	70.00	130.00	*FAIL*
Diazinon	1.00	1.272	127.2	70.00	130.00	PASS
Endosulfan I	1.00	1.13	113.0	70.00	130.00	PASS
Endosulfan II	1.00	1.119	111.9	70.00	130.00	PASS
Endosulfan sulfate	1.00	1.09	109.0	70.00	130.00	PASS
Fenamiphos	1.00	1.016	101.6	70.00	130.00	PASS
Metolachlor	1.00	1.086	108.6	70.00	130.00	PASS
Metribuzin	1.00	0.877	87.7	70.00	130.00	PASS
Pendimethalin	1.00	1.298	129.8	70.00	130.00	PASS
Prometon	1.00	0.764	76.4	70.00	130.00	PASS
Propachlor	1.00	1.107	110.7	70.00	130.00	PASS
Simazine	1.00	0.789	78.9	70.00	130.00	PASS
Terbufos	1.00	1.027	102.7	70.00	130.00	PASS
Trifluralin	1.00	1.005	100.5	70.00	130.00	PASS
IS-4,4'-Dibromooctafluorobiphenyl	1.00	5.0	N/A	N/A	N/A	Validate
IS-Chrysene-d12	1.00	5.0	N/A	N/A	N/A	Validate
IS-Phenanthrene-d10	1.00	5.0	N/A	N/A	N/A	Validate

**Environmental Health Laboratories
Sample Result Record Sheet**

File Name: 374150
Acquisition File: A121798A
Data Directory: 121798A
Today's Date: 1999/01/20
Instrument: GC/MS - AE
Extracted Date: 1998/12/07
Sample Number: 374150

Method: 525.2 - IDEM
Calibration File: 0928F0AE
Analysis Date: 1998/12/17
Analysis Time: 17:43
Analyst: toms
Results Submitted By: toms
Run Number: 16325

Sample Description: IDEM DK12434 L

Expected Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

Additional Found Parameters

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
10386-84-2	IS-4,4'-Dibromooctafluorobiphenyl	5.0	N/A	ug/L
1719-03-5	IS-Chrysene-d12	5.0	N/A	ug/L
1517-22-2	IS-Phenanthrene-d10	5.0	N/A	ug/L

Environmental Health Laboratories
Sample Result Record Sheet

File Name: 374175
Acquisition File: A121798A
Data Directory: 121798A
Today's Date: 1999/01/20
Instrument: GC/MS - AE
Extracted Date: 1998/12/07
Sample Number: 374175

Method: 525.2 - IDEM
Calibration File: 0928F0AE
Analysis Date: 1998/12/17
Analysis Time: 18:17
Analyst: toms
Results Submitted By: toms
Run Number: 16325

Sample Description: IDEM DK12498 L

Expected Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

Additional Found Parameters

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
10386-84-2	IS-4,4'-Dibromooctafluorobiphenyl	5.0	N/A	ug/L
1719-03-5	IS-Chrysene-d12	5.0	N/A	ug/L
1517-22-2	IS-Phenanthrene-d10	5.0	N/A	ug/L

**Environmental Health Laboratories
Sample Result Record Sheet**

File Name: 374190
Acquisition File: A121798A
Data Directory: 121798A
Today's Date: 1999/01/20
Instrument: GC/MS - AE
Extracted Date: 1998/12/07
Sample Number: 374190

Method: 525.2 - IDEM
Calibration File: 0928F0AE
Analysis Date: 1998/12/17
Analysis Time: 18:51
Analyst: toms
Results Submitted By: toms
Run Number: 16325

Sample Description: IDEM DK12497 L

Expected Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

Additional Found Parameters

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
10386-84-2	IS-4,4'-Dibromooctafluorobiphenyl	5.0	N/A	ug/L
1719-03-5	IS-Chrysene-d12	5.0	N/A	ug/L
1517-22-2	IS-Phenanthrene-d10	5.0	N/A	ug/L

**Environmental Health Laboratories
Sample Result Record Sheet**

File Name: 374195
Acquisition File: A121798A
Data Directory: 121798A
Today's Date: 1999/01/20
Instrument: GC/MS - AE
Extracted Date: 1998/12/07
Sample Number: 374195

Method: 525.2 - IDEM
Calibration File: 0928F0AE
Analysis Date: 1998/12/17
Analysis Time: 19:25
Analyst: toms
Results Submitted By: toms
Run Number: 16325

Sample Description: IDEM DK12499 L

Expected Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

Additional Found Parameters

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
10386-84-2	IS-4,4'-Dibromooctafluorobiphenyl	5.0	N/A	ug/L
1719-03-5	IS-Chrysene-d12	5.0	N/A	ug/L
1517-22-2	IS-Phenanthrene-d10	5.0	N/A	ug/L

Environmental Health Laboratories
Sample Result Record Sheet

File Name: 374200
Acquisition File: A121798A
Data Directory: 121798A
Today's Date: 1999/01/20
Instrument: GC/MS - AE
Extracted Date: 1998/12/07
Sample Number: 374200

Method: 525.2 - IDEM
Calibration File: 0928F0AE
Analysis Date: 1998/12/17
Analysis Time: 20:00
Analyst: toms
Results Submitted By: toms
Run Number: 16325

Sample Description: IDEM DK12500 L

Expected Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

Additional Found Parameters

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
10386-84-2	IS-4,4'-Dibromooctafluorobiphenyl	5.0	N/A	ug/L
1719-03-5	IS-Chrysene-d12	5.0	N/A	ug/L
1517-22-2	IS-Phenanthrene-d10	5.0	N/A	ug/L

**Environmental Health Laboratories
Sample Result Record Sheet**

File Name: 374205
Acquisition File: A121798A
Data Directory: 121798A
Today's Date: 1999/01/20
Instrument: GC/MS - AE
Extracted Date: 1998/12/07
Sample Number: 374205

Method: 525.2 - IDEM
Calibration File: 0928F0AE
Analysis Date: 1998/12/17
Analysis Time: 20:34
Analyst: toms
Results Submitted By: toms
Run Number: 16325

Sample Description: IDEM DK12501 L

Expected Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

Additional Found Parameters

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
10386-84-2	IS-4,4'-Dibromooctafluorobiphenyl	5.0	N/A	ug/L
1719-03-5	IS-Chrysene-d12	5.0	N/A	ug/L
1517-22-2	IS-Phenanthrene-d10	5.0	N/A	ug/L

**Environmental Health Laboratories
Sample Result Record Sheet**

File Name: 374210
Acquisition File: A121798A
Data Directory: 121798A
Today's Date: 1999/01/20
Instrument: GC/MS - AE
Extracted Date: 1998/12/07
Sample Number: 374210

Method: 525.2 - IDEM
Calibration File: 0928F0AE
Analysis Date: 1998/12/17
Analysis Time: 21:08
Analyst: toms
Results Submitted By: toms
Run Number: 16325

Sample Description: IDEM DK12502 L

Expected Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

Additional Found Parameters

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
10386-84-2	IS-4,4'-Dibromooctafluorobiphenyl	5.0	N/A	ug/L
1719-03-5	IS-Chrysene-d12	5.0	N/A	ug/L
1517-22-2	IS-Phenanthrene-d10	5.0	N/A	ug/L

**Environmental Health Laboratories
Sample Result Record Sheet**

File Name: 374215
Acquisition File: A121798A
Data Directory: 121798A
Today's Date: 1999/01/20
Instrument: GC/MS - AE
Extracted Date: 1998/12/07
Sample Number: 374215

Method: 525.2 - IDEM
Calibration File: 0928F0AE
Analysis Date: 1998/12/17
Analysis Time: 21:42
Analyst: toms
Results Submitted By: toms
Run Number: 16325

Sample Description: IDEM DK12503 L

Expected Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

Additional Found Parameters

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
10386-84-2	IS-4,4'-Dibromooctafluorobiphenyl	5.0	N/A	ug/L
1719-03-5	IS-Chrysene-d12	5.0	N/A	ug/L
1517-22-2	IS-Phenanthrene-d10	5.0	N/A	ug/L

**Environmental Health Laboratories
Sample Result Record Sheet**

File Name: 374220
Acquisition File: A121798A
Data Directory: 121798A
Today's Date: 1999/01/20
Instrument: GC/MS - AE
Extracted Date: 1998/12/07
Sample Number: 374220

Method: 525.2 - IDEM
Calibration File: 0928F0AE
Analysis Date: 1998/12/17
Analysis Time: 22:16
Analyst: toms
Results Submitted By: toms
Run Number: 16325

Sample Description: IDEM DK12514 L

Expected Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

Additional Found Parameters

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
10386-84-2	IS-4,4'-Dibromooctafluorobiphenyl	5.0	N/A	ug/L
1719-03-5	IS-Chrysene-d12	5.0	N/A	ug/L
1517-22-2	IS-Phenanthrene-d10	5.0	N/A	ug/L

Environmental Health Laboratories
Sample Result Record Sheet

File Name: 374225
Acquisition File: A121798A
Data Directory: 121798A
Today's Date: 1999/01/20
Instrument: GC/MS - AE
Extracted Date: 1998/12/07
Sample Number: 374225

Method: 525.2 - IDEM
Calibration File: 0928F0AE
Analysis Date: 1998/12/17
Analysis Time: 22:50
Analyst: toms
Results Submitted By: toms
Run Number: 16325

Sample Description: IDEM DK12160 L

Expected Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

Additional Found Parameters

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
10386-84-2	IS-4,4'-Dibromooctafluorobiphenyl	5.0	N/A	ug/L
1719-03-5	IS-Chrysene-d12	5.0	N/A	ug/L
1517-22-2	IS-Phenanthrene-d10	5.0	N/A	ug/L

**Environmental Health Laboratories
Sample Result Record Sheet**

File Name: 374230
Acquisition File: A121798A
Data Directory: 121798A
Today's Date: 1999/01/20
Instrument: GC/MS - AE
Extracted Date: 1998/12/07
Sample Number: 374230

Method: 525.2 - IDEM
Calibration File: 0928F0AE
Analysis Date: 1998/12/17
Analysis Time: 23:24
Analyst: toms
Results Submitted By: toms
Run Number: 16325

Sample Description: IDEM DK12161 L

Expected Parameter Results

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

Additional Found Parameters

<u>CAS No.</u>	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
10386-84-2	IS-4,4'-Dibromooctafluorobiphenyl	5.0	N/A	ug/L
1719-03-5	IS-Chrysene-d12	5.0	N/A	ug/L
1517-22-2	IS-Phenanthrene-d10	5.0	N/A	ug/L

**Environmental Health Laboratories
Continuing Calibration Check Check**

File Name: C-1-18B
Acquisition File: A121798A
Data Directory: 121798A
Today's Date: 1999/01/20
Instrument: GC/MS - AE
Extracted Date: Not Available
Sample Number: 376359

Method: 525.2 - IDEM
Calibration File: 0928F0AE
Analysis Date: 1998/12/18
Analysis Time: 01:09
Analyst: toms
Results Submitted By: toms
Run Number: 16325

Sample Description: CCC B

<u>Compound</u>	<u>Target</u>	<u>Amount</u>	<u>%Rec</u>	<u>Limits</u>		<u>Pass/Fail</u>
				<u>Lower</u>	<u>Upper</u>	
Acetochlor	1.00	1.069	106.9	70.00	130.00	PASS
Alachlor	1.00	0.977	97.7	70.00	130.00	PASS
Atrazine	1.00	1.124	112.4	70.00	130.00	PASS
Bromacil	1.00	0.745	74.5	70.00	130.00	PASS
Cyanazine	1.00	0.707	70.7	70.00	130.00	PASS
Diazinon	1.00	1.136	113.6	70.00	130.00	PASS
Endosulfan I	1.00	1.091	109.1	70.00	130.00	PASS
Endosulfan II	1.00	1.09	109.0	70.00	130.00	PASS
Endosulfan sulfate	1.00	1.03	103.0	70.00	130.00	PASS
Fenamiphos	1.00	0.716	71.6	70.00	130.00	PASS
Metolachlor	1.00	0.999	99.9	70.00	130.00	PASS
Metribuzin	1.00	0.968	96.8	70.00	130.00	PASS
Pendimethalin	1.00	1.061	106.1	70.00	130.00	PASS
Prometon	1.00	1.069	106.9	70.00	130.00	PASS
Propachlor	1.00	1.08	108.0	70.00	130.00	PASS
Simazine	1.00	0.705	70.5	70.00	130.00	PASS
Terbufos	1.00	0.904	90.4	70.00	130.00	PASS
Trifluralin	1.00	0.906	90.6	70.00	130.00	PASS
IS-4,4'-Dibromooctafluorobiphenyl	1.00	5.0	N/A	N/A	N/A	Validate
IS-Chrysene-d12	1.00	5.0	N/A	N/A	N/A	Validate
IS-Phenanthrene-d10	1.00	5.0	N/A	N/A	N/A	Validate

01/20/99

Environmental Health Laboratories
Volatile Organic Chemicals
Internal Standard Area Summary

CCC Standard	IS1 Area	IS1 RT
CCC Upper Limit	3657897	18.1657
CCC Lower Limit	4755266.1	N/A
Init Call Lower Limit	2560527.9	N/A
	N/A	N/A

Sample No.	Filename	IS1 Area	Q	IS1 RT	Q	IS1 %Rec	Q	Matrix
1. 378166 / LMB	MB-525A	3619618		18.1666				RW
2. 378167 / LFB	FB-525A	3516656		18.1666				RW
3. 374150 / FS	374150	3376903		18.1657				GW
4. 374175 / FS	374175	2879197		18.1648				GW
5. 374190 / FS	374190	2750953		18.1657				GW
6. 374195 / FS	374195	2735392		18.1657				GW
7. 374200 / FS	374200	3773906		18.1675				GW
8. 374205 / FS	374205	3452542		18.1657				GW
9. 374210 / FS	374210	3187588		18.184				GW
10. 374215 / FS	374215	3569445		18.2316				GW
11. 374220 / FS	374220	3318490		18.249				GW
12. 374225 / FS	374225	4222990		18.2664				GW
13. 374230 / FS	374230	3838777		18.2664				GW
14. 376359 / CCC	C-1-18B	3445961		18.2655				OS

IS1 = IS-Pyrene-d10

Q = Out of Range

01/20/99

**Environmental Health Laboratories
Volatile Organic Chemicals
Internal Standard Area Summary**

IS1 Area	IS1 RT
CCC Standard	3445961 18.2655
CCC Upper Limit	4479749.3 N/A
CCC Lower Limit	2412172.7 N/A
Init Call Lower Limit	N/A N/A

Sample No.	Filename	IS1 Area	Q	IS1 RT	Q	IS1 %Rec	Q	Matrix
IS1 = IS-Pyrene-d10								
Q = Out of Range								

01/20/99

**Environmental Health Laboratories
Volatile Organic Chemicals
Surrogate Percent Recovery**

Sample No. / Desc	Filename	SS1	%Rec	Q	SS2	%Rec	Q	SS3	%Rec	Q	SS4	%Rec	Q	Tot	Matrix
1. 378166 / LMB	MB-525A	5.18	103.50		5.205	104.00		5.6	111.89		5.569	111.27		0	RW
2. 378167 / LFB	FB-525A	6.029	120.58		6.485	129.70		6.455	129.10		6.004	120.08		0	RW
3. 374150 / FS	374150	5.448	108.53		5.405	107.67		5.78	115.14		5.919	117.91		0	GW
4. 374175 / FS	374175	5.484	111.58		5.181	105.41		5.532	112.55		5.256	106.94		0	GW
5. 374190 / FS	374190	5.305	110.06		5.115	106.12		5.53	114.73		5.113	106.08		0	GW
6. 374195 / FS	374195	5.504	112.79		4.896	100.33		5.226	107.09		4.995	102.36		0	GW
7. 374200 / FS	374200	5.61	115.55		5.482	112.91		5.989	123.36		5.739	118.21		0	GW
8. 374205 / FS	374205	5.483	113.40		5.361	110.88		5.961	123.29		5.904	122.11		0	GW
9. 374210 / FS	374210	5.605	114.15		5.5	112.02		5.88	119.76		5.467	111.34		0	GW
10. 374215 / FS	374215	5.82	120.12		5.677	117.17		6.126	126.44		7.694	158.80	Q	1	GW
11. 374220 / FS	374220	5.567	112.01		5.19	104.43		5.524	111.15		4.98	100.20		0	GW
12. 374225 / FS	374225	6.07	123.75		5.822	118.70		6.207	126.54		5.849	119.25		0	GW
13. 374230 / FS	374230	5.2	106.12		5.058	103.22		5.367	109.53		5.184	105.80		0	GW

SS1 = SS-2,4,5,6-Tetrachloro-m-xylene

SS2 = SS-4,4'-Dichlorobiphenyl

SS3 = SS-Pentachloronitrobenzene

SS4 = SS-Triphenylphosphate

Q = Out of Range

PESTICIDES & INDUSTRIAL CHEMICALS EXTENDED INITIAL CALIBRATION

Tech: AT

Date: 12/18/98

Lab Name: Environmental Health Laboratories
 Contract: BAA 97-044
 Project: IDEM / Pesticide Monitoring Network
 Column: Restek XTI-5 30m x 0.25mm ID
 IC Soln Lot#: Mix 1: W980505012-082898

Lab ID: unknown
 Task: 4A
 Case: n/a
 Method: 525.2
 Mix 2:

Acq. File: A121798A
 Data Directory: AE\121798A
 Initial Cali File: 0928F0AE
 Instrument ID: GC/MS-AE
 Mix 3:

Data File / Sample ID:	I005-18A	I-01-18A	I-05-18A	I-1-18A	I-2-18A	I-5-18A	I-10-18A	I-25-18A	I-50-18A	I-100-18A				
Concentration (ug/L):	0.05	0.1	0.5	1	2	5	10	25	50	100	Avg	%	Corr	
Compound	Rf	Rf	Rf	Rf	Rf	Rf	Rf	Rf	Rf	Rf	Rf	RSD	Coeff	Q
Acetochlor	---	0.258	0.254	0.260	0.263	---	0.277	0.285	---	---	0.266	4.6	1.000	
Alachlor	---	1.050	1.083	1.117	1.174	---	1.202	1.183	---	---	1.135	5.4	1.000	
Atrazine	---	0.400	0.407	0.403	0.421	---	0.365	0.297	---	---	0.382	11.9	0.996	
Bromacil	---	0.913	0.746	0.736	0.815	---	0.848	0.862	---	---	0.820	8.4	1.000	
Cyanazine	---	0.308	0.306	0.318	0.343	---	0.349	0.364	---	---	0.331	7.2	1.000	
Diazinon	---	0.914	0.831	0.828	0.857	---	0.808	0.674	---	---	0.819	9.7	0.997	
Endosulfan I	---	0.256	0.209	0.203	0.205	---	0.215	0.205	---	---	0.216	9.4	1.000	
Endosulfan II	---	0.294	0.234	0.230	0.233	---	0.236	0.239	---	---	0.244	10.0	1.000	
Endosulfan sulfate	---	0.210	0.193	0.197	0.201	---	0.204	0.196	---	---	0.200	3.1	1.000	
Fenamiphos	---	0.433	0.487	0.498	0.568	---	0.653	0.624	---	---	0.544	15.7	1.000	
Metolachlor	---	2.276	2.311	2.389	2.622	---	2.509	2.400	---	---	2.418	5.3	1.000	
Metribuzin	---	0.535	0.541	0.562	0.616	---	0.615	0.618	---	---	0.581	6.8	1.000	
Pendimethalin	---	0.400	0.460	0.454	0.474	---	0.459	0.477	---	---	0.454	6.2	1.000	
Prometon	---	0.938	0.946	0.945	0.981	---	0.889	0.743	---	---	0.907	9.4	0.997	
Propachlor	---	0.660	0.683	0.686	0.737	---	0.688	0.667	---	---	0.687	3.9	1.000	
Simazine	---	0.280	0.283	0.279	0.307	---	0.287	0.269	---	---	0.284	4.5	1.000	
Terbufos	---	1.403	1.354	1.386	1.430	---	1.517	1.552	---	---	1.440	5.4	1.000	
Trifluralin	---	1.006	1.081	1.075	1.169	---	1.162	1.213	---	---	1.118	6.9	1.000	

Avg RF = Average response factor

Max %RSD = 30% for a linear fit

Q = A flag or qualifier indicating possible cause for an out of range or failed result.

Comments:

DETERMINATION OF METHOD DETECTION LIMITS **METHOD 525.2 Extended - BROAD SPECTRUM PESTICIDES**

Tech: RD
Date: 05/02/98

Lab Name: Environmental Health Laboratories
Contract: n/a
Project: Routine MDL
Column: Restek XTI-5 30m x 0.25mm ID
Matrix Code: RW

Lab ID: unknown
Task: n/a
Case: n/a
Method: 525.2C

Acq. File: A032598A
Data Directory: AE\032598A
Initial Call Data: 0220FOAE
Instrument ID: Saturn-AE

Method	CAS #	Parameter	Target	Rep - 1	Rep - 2	Rep - 3	Rep - 4	Rep - 5	Rep - 6	Rep - 7	Std. Deviation	Calc. MDL	Units
			Data File*	M-01-01A	M-01-01B	M-01-01C	M-01-01D	M-01-01E	M-01-01F	M-01-01G			
			Analysis Date	03/25/98	03/25/98	03/26/98	03/26/98	03/27/98	03/27/98	03/27/98			
525.2	34256-82-1	Acetochlor	0.1	0.097	0.111	0.096	0.086	0.103	0.104	0.099	0.0078	0.025	ug/L
525.2	15972-60-8	Alachlor	0.1	0.124	0.119	0.128	0.120	0.129	0.121	0.127	0.0041	0.013	ug/L
525.2	1912-24-9	Atrazine	0.1	0.101	0.098	0.110	0.097	0.101	0.105	0.103	0.0044	0.014	ug/L
525.2	314-40-9	Bromacil	0.1	0.216	0.223	0.208	0.211	0.205	0.222	0.216	0.0068	0.021	ug/L
525.2	21725-46-2	Cyanazine	0.1	0.108	0.121	0.096	0.109	0.108	0.110	0.109	0.0073	0.023	ug/L
525.2	333-41-5	Diazinon	0.1	0.289	0.278	0.283	0.286	0.282	0.265	0.252	0.0133	0.042	ug/L
525.2	959-98-8	Endosulfan I	0.1	0.142	0.142	0.123	0.140	0.129	0.130	0.130	0.0075	0.024	ug/L
525.2	33213-65-9	Endosulfan II	0.1	0.104	0.119	0.090	0.129	0.086	0.100	0.094	0.0157	0.049	ug/L
525.2	1031-07-8	Endosulfan Sulfate	0.1	0.096	0.097	0.095	0.110	0.099	0.092	0.128	0.0126	0.040	ug/L
525.2	22224-92-6	Fenamiphos	0.1	0.108	0.118	0.129	0.122	0.127	0.116	0.118	0.0071	0.022	ug/L
525.2	51218-45-2	Metolachlor	0.1	0.122	0.118	0.125	0.122	0.120	0.126	0.126	0.0031	0.010	ug/L
525.2	21087-64-9	Metribuzin	0.1	0.093	0.091	0.096	0.091	0.099	0.095	0.093	0.0029	0.009	ug/L
525.2	40487-42-1	Pendimethalin	0.1	0.095	0.099	0.096	0.102	0.103	0.096	0.094	0.0035	0.011	ug/L
525.2	1610-18-0	Prometon	0.1	0.084	0.069	0.068	0.070	0.057	0.046	0.066	0.0118	0.037	ug/L
525.2	1918-16-7	Propachlor	0.1	0.119	0.106	0.119	0.103	0.117	0.119	0.119	0.0070	0.022	ug/L
525.2	122-34-9	Simazine	0.1	0.122	0.113	0.103	0.096	0.102	0.109	0.111	0.0085	0.027	ug/L
525.2	13071-79-9	Terbufos	0.1	0.117	0.103	0.128	0.097	0.132	0.126	0.126	0.0135	0.042	ug/L
525.2	1582-09-8	Trifluralin	0.1	0.139	0.138	0.140	0.129	0.134	0.143	0.145	0.0054	0.017	ug/L

Q = A flag or qualifier indicating possible cause for an out of range or failed result.

Comments

SHADED AREA FOR LAB USE ONLY

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

CLIENT / COMPANY ORDERING TEST			STATE OF SAMPLE ORIGIN		SAMPLET (Signature)	PWS ID#	PO#	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
IDEM			IN		RS					
EHL LAB#	COLLECTION		SAMPLING SITE/LAB ID #	TEST NAME	SAMPLE REMARKS	# OF CONTAINERS				
	DATE	TIME								
374110	11	30	1030	AP	DK 12239	S	525.2			1
374111				AP		Invalid MS				1
374112				AP		↓ MSD				1
374113				AP		S	515.1 -			1
374114				AP		MS				1
374115				AP		MSD				1
374116				AP		S	531.1 -			2
374117				AP		MS				2
374118				AP		MSD				2
374119				AP		S	24-D			1
374120				AP		Invalid MS				1
374121				AP		MSD				1
374122				AP		S	Carbofuran			1

FIELD COMMENTS: CARRIER _____ AIRBILL NO. _____ COOLER NO. _____ DATE SHIPPED _____

374123 Invalid MS ↓ MSD ↑

374124 Invalid MS ↓ MSD ↑

On file for _____

In House coc

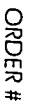
LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT.

RELINQUISHED BY: (Signature)		DATE	TIME	RECEIVED BY: (Signature)		DATE	TIME
RELINQUISHED BY: (Signature)		DATE	TIME	RECEIVED FOR LABORATORY BY:		DATE	TIME
				<i>E. Plauch</i>		10/21/98	0730

MATRIX CODES:		TURN-AROUND-TIME (TAT) - SURCHARGES	
RW = REAGENT WATER	SW = STANDARD (15 WORKING DAYS) WRITTEN	0%	
DW = DRINKING WATER	RV = RUSH (5 WORKING DAYS) VERBAL	50%	
GW = GROUNDWATER	RW = RUSH (5 WORKING DAYS) WRITTEN	75%	
SW = SURFACE WATER			
WW = WASTEWATER			
PW = POOL WATER			

LAB COMMENTS	
<p>5/10/98 5:34 PM 100% <i>W. coli</i> detected for confirmation. All samples were not tested. They should be re-analyzed.</p> <p>SHIPPING: CONDITIONS (check one) <input checked="" type="checkbox"/> Ambient <input type="checkbox"/> Refrigerated <input type="checkbox"/> Frozen</p> <p>TEMPERATURE _____</p> <p>_____ <input type="checkbox"/> Ambient <input type="checkbox"/> Refrigerated <input type="checkbox"/> Frozen</p> <p>_____ <input type="checkbox"/> Ambient <input type="checkbox"/> Refrigerated <input type="checkbox"/> Frozen</p>	

STAT = LESS THAN 48 HOURS	
100%	Call
125%	Call
<p>Samples received unannounced with less than 48 hours holding time remaining may be subject to additional surcharges.</p>	



PAGE 2 OF 2

ERS

2

EHL LAB #	COLLECTION		SAMPLING SITE/LAB ID #	TEST NAME	SAMPLE REMARKS	# OF CO	MATRIX	TURNARO	CUSTOD
	DATE	TIME							
374/25	11/30	1150	AP	DK1284D	585.2				
374/26			AP		515.1 -				
374/27			AP		531.1 -				
374/28			AP		2.4-D				
374/29			AP		Carbofuran				
374/30		1400	AP	DK1284I	585.2				
374/31			AP		515.1 -				
374/32			AP		531.1 -				
374/33			AP		2.4-D				
374/34			AP		Carbofuran				
			AP						
			AP						
			AP						
			AP						

DATE SHIPPED _____

House Coc

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT.

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY: <i>E. Deaver</i>	DATE <i>12/24/80</i>	TIME <i>09:33</i>

LAB COMMENTS *S/G And S/31 Samples are included*
media needed for confirmation S/31-498

SHIPPING CONDITIONS: (Check One) ☒ **Cooled** ☐ **Ambient**
 TEMPERATURE: °C Lowest °C Highest °C Receipt

MATRIX CODES:

RW = REAGENT WATER

DW = DRINKING WATER

GW = GROUNDWATER

SW = SURFACE WATER

WW = WASTEWATER

PW = POOL WATER

SW = STANDARD (15 WORKING DAYS) WRITTEN

RV = RUSH (5 WORKING DAYS) VERBAL

RW = RUSH / 5 WORKING DAYS WRITTEN

%0

50%

75%

IV = IMMEDIATE (72 HOURS) VERBAL

IV = IMMEDIATE / 72 HOURS / WRITTEN

SP = WEEKEND HOLIDAY

100%

125%

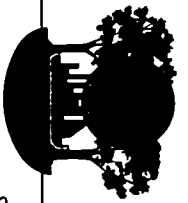
Call

STAT = LESS THAN 48 HOURS

THE

samples received unannounced with less than 48 h

surcharges.



Environmental
Health Laboratories

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ORDER #

SHADED AREA FOR LAB USE ONLY

CHAIN OF CUSTODY RECORD

PAGE

31 OF

CLIENT/COMPANY ORDERING TEST

STATE OF SAMPLE ORIGIN

SAMPLER (Signature)

PWS ID#

PO #

IDEM

IN

CT

EHL
LAB #

COLLECTION
DATE TIME

SAMPLING SITE/LAB ID #

TEST NAME

SAMPLE REMARKS

OF CONTAINERS

MATRIX CODE

TURNAROUND TIME

CUSTODY SEAL

374135	12/2	1245	AP	DK12433	S	525.2			1		
374136			AP		Invalid MS						
374137			AP		MSD	↓			1		
374138			AP		S	515.1			1		
374139			AP		MS	↓			1		
374140			AP		MSD	↓			1		
374141			AP		S	531.1			2		
374142			AP		MS	↓			2		
374143			AP		MSD	↓			2		
374144			AP		S	2.4-D			1		
374145			AP		Invalid MS						
374146			AP		MSD	↓					
374147			AP		S	Carbofuran					

FIELD COMMENTS:

CARRIER

AIRBILL NO.

COOLER NO.

DATE SHIPPED

374148
374149

↓

↓

↓

Invalid MS

↓

MSD

↓

MSD

↓

MSD

↓

Carbofuran

↓

Carbofuran

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Carbofuran

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Carbofuran

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Carbofuran

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Carbofuran

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Carbofuran

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Carbofuran

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Carbofuran

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT.

RELINQUISHED BY: (Signature)

DATE

TIME

RECEIVED BY: (Signature)

DATE

TIME

DATE

TIME

LAB COMMENTS

SHIPPING CONDITIONS (Check One)

Temperature

°C Lowest

°C Highest

°C Receipt

°C Ambient

°C

°C

°C

°C

°C

°C

RELINQUISHED BY: (Signature)

DATE

TIME

RECEIVED FOR LABORATORY BY:

DATE

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MATRIX CODES:

DW = DRINKING WATER

GW = GROUNDWATER

SW = SURFACE WATER

WW = WASTEWATER

PW = POOL WATER

TURN-AROUND-TIME (TAT) - SURCHARGES

SW = STANDARD (15 WORKING DAYS) WRITTEN

RV = RUSH (5 WORKING DAYS) WRITTEN

SP = RUSH (5 WORKING DAYS) WRITTEN

SP = WEEKEND, HOLIDAY

SP = WEEKEND, HOLIDAY

IV = IMMEDIATE (72 HOURS) WRITTEN

IV = IMMEDIATE (72 HOURS) WRITTEN

IV = IMMEDIATE (72 HOURS) WRITTEN

IV = IMMEDIATE (72 HOURS) WRITTEN

IV = IMMEDIATE (72 HOURS) WRITTEN

STAT = LESS THAN 48 HOURS

STAT = LESS THAN 48 HOURS

STAT = LESS THAN 48 HOURS

STAT = LESS THAN 48 HOURS

STAT = LESS THAN 48 HOURS

Call

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Call

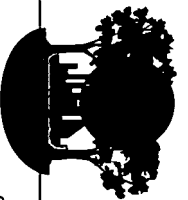
Call

Call

Call

Call

Call



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ORDER #

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CHAIN OF CUSTODY RECORD

PAGE

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CLIENT/COMPANY ORDERING TEST		STATE OF SAMPLE ORIGIN		SAMPLER (Signature)		PWS ID#	PO#	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME	CUSTODY SEAL
IDEM		IN		ET							
EHL LAB#	COLLECTION		SAMPLING SITE/LAB ID #	TEST NAME	SAMPLE REMARKS						
	DATE	TIME									
374150	12/2	1545	AP	DK 12434	585.2						
374151			AP	Invalid	515.1						
374152			AP	↓	531.1						
374153			AP	↓	2.4-D						
374154			AP	↓	Carbofuran						
374155		1700	AP	DK 12435	525.2						
374156			AP	Invalid	515.1						
374157			AP	↓	531.1						
374158			AP	↓	2.4-D						
374159			AP	↓	Carbofuran						
			AP								
			AP								
			AP								
			AP								

FIELD COMMENTS: CARRIER AIRBILL NO. COOLER NO. DATE SHIPPED

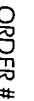
Dr House COC

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT.

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME	LAB COMMENTS
						515 and 531 samples are invalid where needed for confirmation 512498
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME	SHIPPING CONDITIONS (Check One) <input checked="" type="checkbox"/> Iced <input type="checkbox"/> Ambient
			E Pearl	12/3	0930	TEMPERATURE °C Lowest _____ °C Highest _____ °C Receipt

MATRIX CODES:
RW = REAGENT WATER
DW = DRINKING WATER
GW = GROUNDWATER
SW = SURFACE WATER
WW = WASTEWATER
PW = POOL WATER

TURN-AROUND-TIME (TAT) - SURCHARGES
SW = STANDARD (15 WORKING DAYS) WRITTEN
RV = RUSH (5 WORKING DAYS) VERBAL
RW = RUSH (5 WORKING DAYS) WRITTEN
IV = IMMEDIATE (72 HOURS) VERBAL
IW = IMMEDIATE (72 HOURS) WRITTEN
SP = WEEKEND, HOLIDAY
STAT = LESS THAN 48 HOURS
Call
Samples received unannounced with less than 48 hours holding time remaining may be subject to additional surcharges.



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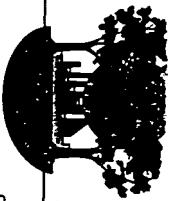
RS

MB

C

CUSTODY SEAL

[illegible]



Environmental
Health Laboratories

110 S. Hill Street · South Bend, IN 46617 · Phone (219) 233-4777 · (800) 332-4345

ORDER #

SHADED AREA FOR LAB USE ONLY

CHAIN OF CUSTODY RECORD

PAGE 18 OF

CLIENT/COMPANY ORDERING TEST

STATE OF SAMPLE ORIGIN

SAMPLER (Signature)

PWS ID#

PO #

OF CONTAINERS

MATRIX CODE

TURNAROUND TIME

CUSTODY SEAL

IDEM

IN

EHL LAB#	COLLECTION		SAMPLING SITE/LAB ID #	TEST NAME	SAMPLE REMARKS	#
	DATE	TIME				

374200	12/2	1730	AP	DK12500	525.2	1
374201			AP	Invalid	515.1	1
374202			AP	↓	531.1	2
374203			AP		2.4-D	1
374204			AP	↓	Carbofuran	1
374205	12/3	1016	AP	DK12501	525.2	1
374206			AP	Invalid	515.1	1
374207			AP	↓	531.1	2
374208			AP		2.4-D	1
374209			AP	↓	Carbofuran	1
			AP			
			AP			
			AP			
			AP			

FIELD COMMENTS: CARRIER AIRBILL NO. COOLER NO. DATE SHIPPED

Dr House COC

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT.

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME	LAB COMMENTS
						515 AND 531 samples are invalid
						labels needed for confirmation 512-4-98
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME	SHIPPING CONDITIONS (check one) <input checked="" type="checkbox"/> Ambient <input type="checkbox"/> Chilled <input type="checkbox"/> Frozen <input type="checkbox"/> Ambient
			<i>Dr House</i>	12/3/98	1315	12/3/98

TURN-AROUND-TIME (TAT) - SURCHARGES

MATRIX CODES:	
RW = REAGENT WATER	
DW = DRINKING WATER	
GW = GROUNDWATER	
SW = SURFACE WATER	
WW = WASTEWATER	
PW = POOL WATER	
SW = STANDARD (15 WORKING DAYS) WRITTEN	0%
RV = RUSH (5 WORKING DAYS) VERBAL	50%
RW = RUSH (5 WORKING DAYS) WRITTEN	75%
IV = IMMEDIATE (72 HOURS) VERBAL	100%
IW = IMMEDIATE (72 HOURS) WRITTEN	125%
SP = WEEKEND, HOLIDAY	Call
STAT = LESS THAN 48 HOURS	Call
Samples received unannounced with less than 48 hours holding time remaining may be subject to additional surcharges.	



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ORDER #

SHADED AREA FOR LAB USE ONLY

CHAIN OF CUSTODY RECORD

PAGE _____ OF _____

CLIENT/COMPANY ORDERING TEST

STATE OF SAMPLE ORIGIN

SAMPLER (Signature)

PWS ID#

PO#

OF CONTAINERS

MATRIX CODE

TURNAROUND TIME

CUSTODY SEAL

IDEM

IN

EHL
LAB#

COLLECTION
DATE TIME

SAMPLING SITE/LAB ID #

TEST NAME

SAMPLE REMARKS

374 230

12/1 1415

DK 12161

535.2

1

374 231

1

Invalid

515.1

1

374 232

1

Invalid

531.1

2

374 233

1

2.4-D

Carbofuran

1

374 234

1

Invalid

535.2

1

374 235

1

Invalid

515.1

1

374 236

1

Invalid

531.1

2

374 237

1

2.4-D

Carbofuran

1

374 238

1

Invalid

535.2

1

374 239

1

Invalid

515.1

1

374 240

1

Invalid

531.1

2

374 241

1

Invalid

535.2

1

374 242

1

Invalid

515.1

1

FIELD COMMENTS:

CARRIER

AIRBILL NO.

COOLER NO.

DATE SHIPPED

Dr House COC

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT.

RELINQUISHED BY: (Signature)

DATE

TIME

RECEIVED BY: (Signature)

DATE

TIME

LAB COMMENTS

515 AND 531 samples are invalid
video needed for confirmation 5512498

RELINQUISHED BY: (Signature)

DATE

TIME

RECEIVED FOR LABORATORY BY:

DATE

TIME

SHIPPING CONDITIONS (Check One) ☒ Iced ☐ Ambient
TEMPERATURE _____ °C Lowest _____ °C Highest _____ °C Receipt

MATRIX CODES:

RW = REAGENT WATER

DW = DRINKING WATER

GW = GROUNDWATER

SW = SURFACE WATER

WW = WASTEWATER

PW = POOL WATER

SW = STANDARD (15 WORKING DAYS) WRITTEN

RV = RUSH (5 WORKING DAYS) VERBAL

RW = RUSH (5 WORKING DAYS) WRITTEN

0% 50% 75%

IV = IMMEDIATE (72 HOURS) VERBAL

IW = IMMEDIATE (72 HOURS) WRITTEN

SP = WEEKEND, HOLIDAY

TURN-AROUND-TIME (TAT) - SURCHARGES

100% 125% Call

STAT = LESS THAN 48 HOURS

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional surcharges.

Call



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT



OWM



OSIWM



OER



OAM

CHAIN OF CUSTODY

I certify that the sample(s) listed below was/were collected by me or in my presence.

Date: 12 / 02 / 98Signature: Catherine B. TalbotSection: Groundwater

LAB NUMBER ASSIGNED	IDEM CONTROL NUMBER	CONSISTING OF THE INDICATED NUMBER OF BOTTLES											DATE AND TIME COLLECTED
		2000 ml P.N.M.	1000 ml P.N.M.	1000 ml G.N.M.	500 ml G.W.M.	40 ml VIAL	120 ml G.(B.O.)	500 ml P.N.M.	250 ml P.N.M.	1000 ml P.W.M.			
DK 12433						12				36	SS		12/02/98 12:45 AM (PM)
DK 12434						4				12	SS		12/02/98 3:45 AM (PM)
DK 12435						4				12	SS		12/02/98 5:00 AM (PM)
													/ / : AM/PM
													/ / : AM/PM
													/ / : AM/PM
													/ / : AM/PM
													/ / : AM/PM
													/ / : AM/PM
													/ / : AM/PM
													/ / : AM/PM
													/ / : AM/PM

P - Plastic

G - Glass

N.M. - Narrow Mouth

W.M. - Wide Mouth

B.O. - Bacti. Only

CARRIERS

Should samples be iced?

☒ Y ☐ N

I certify that I received the above sample(s).

SIGNATURE		DATE AND TIME		SEALS INTACT		COMMENTS
RELINQUISHED BY:	<u>Catherine B. Talbot</u>	<u>12/02/98</u>		Y	N	
RECEIVED BY:	<u>Erin Deane</u>	<u>12/3</u>	<u>5:30 AM (PM)</u>			No seals
RELINQUISHED BY:		<u>0930</u>	<u>/ /</u>	Y	N	
RECEIVED BY:			AM/PM			
RELINQUISHED BY:		<u>/ /</u>		Y	N	
RECEIVED BY:			AM/PM			
RELINQUISHED BY:		<u>/ /</u>		Y	N	
RECEIVED BY:			AM/PM			
RELINQUISHED BY:		<u>/ /</u>		Y	N	
RECEIVED BY:			AM/PM			

LAB CUSTODIAN

I certify that I received the above sample(s) and is/are recorded in the official record book. The same sample(s) will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Signature: _____

Date: ____ / ____ / ____ Time: ____ : ____ AM/PM

Lab: _____

Address: _____



INDIANA DEPARTMENT of ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER MANAGEMENT
GROUND WATER SECTION

ASSIGNED LAB: EHL

Date Submitted:	12-02-98	Sample Nos Submitted Today:	DK 12433 to DK 12435
Project:	MONITORING NETWORK	Assigned IDEM Sample Nos:	[REDACTED]
Matrix:	Ground Water	Sampler:	[REDACTED]

TASKS &/OR PARAMETERS TO DETERMINE

TASK	PARAMETER	TASK	PARAMETER
4A	PESTICIDES		
4A	CHLORINATED PESTICIDES		
4A	CARBAMATES		

APPROXIMATE CONCENTRATIONS: 10ppm

REPORTING TIME REQUIRED: 30 DAYS

Comments:

Please Send Report To:

Mitt Denney
IDEM
Shadeland, Ground Water Section
P.O. Box 6015
Indianapolis, IN 46206-6015



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT



OWM



OSHW



OER



OAM

CHAIN OF CUSTODY

I certify that the sample(s) listed below was/were collected by me or in my presence.

Date: 12 / 3 / 98Signature: [Signature]Section: Ground Water

LAB NUMBER ASSIGNED	IDEM CONTROL NUMBER	CONSISTING OF THE INDICATED NUMBER OF BOTTLES												DATE AND TIME COLLECTED	
		2000 ml P.N.M.	1000 ml P.N.M.	1000 ml G.N.M.	500 ml G.W.M.	40 ml VIAL	120 ml G.(B.O.)	500 ml P.N.M.	250 ml P.N.M.						
	DK12306			3		16								12/3/98 15:00	AM/PM
														/ /	AM/PM
														/ /	AM/PM
														/ /	AM/PM
														/ /	AM/PM
														/ /	AM/PM
														/ /	AM/PM
														/ /	AM/PM
														/ /	AM/PM
														/ /	AM/PM
														/ /	AM/PM
														/ /	AM/PM

P - Plastic

G - Glass

N.M. - Narrow Mouth

W.M. - Wide Mouth

B.O. - Bacti. Only

CARRIERS

Should samples be iced?

Y

N

I certify that I received the above sample(s).

SIGNATURE		DATE AND TIME		SEALS INTACT		COMMENTS
RELINQUISHED BY:	<u>[Signature]</u>	<u>12/3/98</u>	<u>18:00</u>	Y	N	
RECEIVED BY:	<u>E. J. [Signature]</u>	<u>12/3/98</u>	<u>AM/PM</u>			
RELINQUISHED BY:		/ /		Y	N	
RECEIVED BY:		: : AM/PM				
RELINQUISHED BY:		/ /		Y	N	
RECEIVED BY:		: : AM/PM				
RELINQUISHED BY:		/ /		Y	N	
RECEIVED BY:		: : AM/PM				
RELINQUISHED BY:		/ /		Y	N	
RECEIVED BY:		: : AM/PM				

LAB CUSTODIAN

I certify that I received the above sample(s) and is/are recorded in the official record book. The same sample(s) will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Signature: _____ Date: ____ / ____ / ____ Time: ____ : ____ AM

Lab: _____ Address: _____



INDIANA DEPARTMENT of ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER MANAGEMENT
GROUND WATER SECTION

ASSIGNED LAB: EHL

Date Submitted:	12-3-98	Sample Nos Submitted Today:	DK 12366 to DK 12366
Project:	MONITORING NETWORK	Assigned IDEM Sample Nos:	DK to DK 12366 12425
Matrix:	Ground Water	Sampler:	A. WEINGART

TASKS &/OR PARAMETERS TO DETERMINE

TASK	PARAMETER	TASK	PARAMETER
4A	PESTICIDES		
4A	CHLORINATED PESTICIDES		
4A	CARBAMATES		
	DUP.		

APPROXIMATE CONCENTRATIONS: 10ppm

REPORTING TIME REQUIRED: 30 DAYS

Comments:

Please Send Report To:

Mitt Denney
IDEM
Shadeland, Ground Water Section
P.O. Box 6015
Indianapolis, IN 46206-6015



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT



OWM



OSHW



OER



OAM

CHAIN OF CUSTODY

I certify that the sample(s) listed below was/were collected by me or in my presence.

Date:

12, 3, 98

Signature:

Thelinda Brundage

Section:

GROUND WATER

LAB NUMBER ASSIGNED	IDEM CONTROL NUMBER	CONSISTING OF THE INDICATED NUMBER OF BOTTLES												DATE AND TIME COLLECTED
		2000 ml P, N, M.	1000 ml P, N, M.	1000 ml G, N, M.	500 ml G, W, M.	40 ml VIAL	120 ml G, (B.O.)	500 ml P, N, M.	250 ml P, N, M.					
	DK 12497			2		4	✓							12/2/98 1:23 AM/PM
	DK 12498			6		12	✓							12/2/98 2:45 AM/PM
	DK 12499			2		4	✓							12/2/98 4:10 AM/PM
	DK 12500			2		4								12/2/98 5:20 AM/PM
	DK 12501			2		4								12/3/98 10:16 AM/PM
	DK 12502			2		4								12/3/98 11:23 AM/PM
	DK 12503			2		4								12/3/98 12:19 AM/PM
														11 : AM/PM
														11 : AM/PM
														11 : AM/PM
														11 : AM/PM
														11 : AM/PM

P - Plastic

G - Glass

N.M. - Narrow Mouth

W.M. - Wide Mouth

B.O. - Bacti. Only

CARRIERS

Should samples be iced?

☒ Y ☐ N

I certify that I received the above sample(s).

SIGNATURE		DATE AND TIME		SEALS INTACT		COMMENTS
RELINQUISHED BY:	Thelinda Brundage	12/3/98		Y	N	
RECEIVED BY:	S. R. R. R.	13:15 AM/PM				no seals
RELINQUISHED BY:		/ /		Y	N	
RECEIVED BY:		: AM/PM				
RELINQUISHED BY:		/ /		Y	N	
RECEIVED BY:		: AM/PM				
RELINQUISHED BY:		/ /		Y	N	
RECEIVED BY:		: AM/PM				
RELINQUISHED BY:		/ /		Y	N	
RECEIVED BY:		: AM/PM				

LAB CUSTODIAN

I certify that I received the above sample(s) and is/are recorded in the official record book. The same sample(s) will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Signature:

Date: / / Time: : AM/PM

Lab:

Address:



INDIANA DEPARTMENT of ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER MANAGEMENT
GROUND WATER SECTION

ASSIGNED LAB: EHL

Date Submitted:	12/3/98	Sample Nos Submitted Today:	DK 12497 to DK 12503
Project:	MONITORING NETWORK	Assigned IDEM Sample Nos:	DK 12497 to DK 12503
Matrix:	Ground Water	Sampler:	BRONDYKE

TASKS &/OR PARAMETERS TO DETERMINE

TASK	PARAMETER	TASK	PARAMETER
4A	PESTICIDES		
4A	CHLORINATED PESTICIDES		
4A	CARBAMATES		

APPROXIMATE CONCENTRATIONS: 10ppm

REPORTING TIME REQUIRED: 30 DAYS

Comments:

Please Send Report To:

Mitt Denney
IDEM
Shadeland, Ground Water Section
P.O. Box 6015
Indianapolis, IN 46206-6015



INDIANA DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT



OWM

10

OS-IWM

10

OER

□

OAM

CHAIN OF CUSTODY

I certify that the sample(s) listed below was/were collected by me or in my presence.

Date: 11, 30, 98

Section: Ground Water

Signature: RAJESH SINGH A K J Lim

[illegible]

P - Plastic

G - Glass

N.M. - Narrow Mouth

W.M. - Wide Mouth

B.O. - Bacti. Only

CARRIERS

Should samples be lccd?

Y	N
---	---

I certify that I received the above sample(s).

SIGNATURE	DATE AND TIME	SEALS INTACT		COMMENTS
RELINQUISHED BY: <i>RAJESH KUMAR & KJ</i>	<i>/ /</i>	Y	N	50 CLIENT PROVIDED SAMPLE CONTAIN
RECEIVED BY: <i>R. Ramesh</i>	<i>12/2/98</i> AM/PM			
RELINQUISHED BY:	<i>/ /</i>	Y	N	
RECEIVED BY:	: AM/PM			
RELINQUISHED BY:	<i>/ /</i>	Y	N	
RECEIVED BY:	: AM/PM			
RELINQUISHED BY:	<i>/ /</i>	Y	N	
RECEIVED BY:	: AM/PM			
RELINQUISHED BY:	<i>/ /</i>	Y	N	
RECEIVED BY:	: AM/PM			

LAB CUSTODIAN

I certify that I received the above sample(s) and is/are recorded in the official record book. The same sample(s) will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Signature: _____ Date: ____ / ____ / ____ Time: ____ : ____ AM/PM

Lab: _____ Address: _____



INDIANA DEPARTMENT of ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER MANAGEMENT
GROUND WATER SECTION

ASSIGNED LAB: EHL

Date Submitted:		Sample Nos Submitted Today:	DK 12239 to DK 12241
Project:	MONITORING NETWORK	Assigned IDEM Sample Nos:	DK 11847 to DK 11886
Matrix:	Ground Water	Sampler:	BA-11886

TASKS &/OR PARAMETERS TO DETERMINE

TASK	PARAMETER	TASK	PARAMETER
4A	PESTICIDES		
4A	CHLORINATED PESTICIDES		
4A	CARBAMATES		

APPROXIMATE CONCENTRATIONS: 10ppm

REPORTING TIME REQUIRED: 30 DAYS

Comments:

Please Send Report To:

Mitt Denney
IDEM
Shadeland, Ground Water Section
P.O. Box 6015
Indianapolis, IN 46206-6015



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT



OWM



OSHW



OER



OAM

CHAIN OF CUSTODY

I certify that the sample(s) listed below was/were collected by me or in my presence.

Date: 12 / 01 / 98Signature: James S. HarrisSection: Ground Water

LAB NUMBER ASSIGNED	IDEM CONTROL NUMBER	CONSISTING OF THE INDICATED NUMBER OF BOTTLES												DATE AND TIME COLLECTED	
		2000 ml P, N, M.	1000 ml P, N, M.	1000 ml G, N, M.	500 ml G, W, M.	40 ml VIAL	120 ml G, (B.O.)	500 ml P, N, M.	250 ml P, N, M.						
	DK12514			2		4								12/01/98	11:50 AM/PM
	DK12160			2		4								12/01/98	12:45 AM/PM
	DK12161			2		4								12/01/98	2:15 AM/PM
														/ /	AM/PM
														/ /	AM/PM
														/ /	AM/PM
														/ /	AM/PM
														/ /	AM/PM
														/ /	AM/PM
														/ /	AM/PM
														/ /	AM/PM
														/ /	AM/PM

P - Plastic

G - Glass

N.M. - Narrow Mouth

W.M. - Wide Mouth

B.O. - Bact. Only

CARRIERS

Should samples be iced?

☒ Y☐ N

I certify that I received the above sample(s).

SIGNATURE		DATE AND TIME		SEALS INTACT		COMMENTS
RELINQUISHED BY:	<u>James S. Harris</u>	12	13	198		
RECEIVED BY:	<u>SS</u>	12	4	98	Y	(N)
RELINQUISHED BY:		/	/		Y	N
RECEIVED BY:				AM/PM	Y	N
RELINQUISHED BY:		/	/		Y	N
RECEIVED BY:				AM/PM	Y	N
RELINQUISHED BY:		/	/		Y	N
RECEIVED BY:				AM/PM	Y	N
RELINQUISHED BY:		/	/		Y	N
RECEIVED BY:				AM/PM	Y	N

LAB CUSTODIAN

I certify that I received the above sample(s) and is/are recorded in the official record book. The same sample(s) will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Signature: _____

Date: ____ / ____ / ____ Time: ____ : ____ AM/PM

Lab: _____

Address: _____



INDIANA DEPARTMENT of ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER MANAGEMENT
GROUND WATER SECTION

ASSIGNED LAB: EHL

Date Submitted:		Sample Nos Submitted Today:	DK 12514 12515 DK 12160, DK 12161 +
Project:	MONITORING NETWORK	Assigned IDEM Sample Nos:	DK to DK
Matrix:	Ground Water	Sampler:	J. H. H. H.

TASKS &/OR PARAMETERS TO DETERMINE

TASK	PARAMETER	TASK	PARAMETER
4A	PESTICIDES		
4A	CHLORINATED PESTICIDES		
4A	CARBAMATES		

APPROXIMATE CONCENTRATIONS: 10ppm

REPORTING TIME REQUIRED: 30 DAYS

Comments:

Please Send Report To:

Mitt Denney
IDEM
Shadeland, Ground Water Section
P.O. Box 6015
Indianapolis, IN 46206-6015